

8200109

AND SECOND SECON

TO ALL TO WHOM THESE; PRESENTS SHALL COME;

Royal Sluis

Cultereas. There has been presented to the

Secretary of Agriculture

an application requesting a certificate of protection for an alleged novel variety of sexually reproduced plant, the name and description of which are contained in the application and exhibits, a copy of which is hereunto annexed and made a part hereof, and the various requirements of LAW in such cases made and provided have been complied with, and the title thereto is, from the records of 1-he PLANT variety PROTECTION of the examination made, the said applicant(s) is (are) adjudged to be entitled to a certificate of plant variety PROTECTION under the LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS. HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen years from tile date of this grant. Subject to the payment of the required fees any periodic replenishment of Viable Basic seed of the variety in a fublic repository as provided by LAW, the right to expect the others from selling the variety, or offering it for sale, or reproducing it, or using it in producing a hybrid (or different factory). The extent provided by the Plant Variety Protection Act 1542, as amended, 7 u.s.c. 2321 et seq.)

CAULIFLOWER

'Cervina'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington

this ^{21st} day of July in the year of our Lord one thousand nine hundred and eighty-three.

Steert

Commissioner Plant Variety Protection Offic

Agricultural Machelina Louise

A CARROLL AND A CONTRACT OF THE SECOND SECON

John R Block

	UNITED STATES DEPARTMEN AGRICULTURAL MARK LIVESTOCK, POULTRY, GRAII	FORM APPROVED OMB NO. 40-R3822						
	PLICATION FOR PLANT VARIES		N CERTIFICATE	No certificate for plan be issued unless a cor has been received (5 U	nt variety protection may mpleted application form 1.5.c. 5531.			
	TEMPORARY DESIGNATION OF VARIETY	lb. VARIETY NAME			AL USE ONLY			
	Cervina	Cervina		8200109				
2.	KIND NAME	3. GENUS AND SPEC brassica ol	CIES NAME eracea var.	FILING DATE	TIME XXXX			
	Cauliflower	botrytis	eracea var.	4/21/82 FEE RECEIVED	2:30 P.M. DATE			
4 .	FAMILY NAME (BOTANICAL)	5. DATE OF DETERMINATION August 1977		\$ <u>500.00</u>	4/21/82			
	Crucifers			\$ <u>250.00</u>	6/28/83			
6.	NAME OF APPLICANT(S)	7, ADDRESS (Street and c o d e)	7, ADDRESS (Street and No. or R,F,D, No., C		6. TELEPHONE AREA CODE AND NUMBER			
	Royal Sluis	P.O. Box Holland	22, 1600 AA	ENKHUIZEN,	02280-2741			
9.	IF THE NAMED APPLICANT IS NOT A FORGANIZATION: (Corporation, partnership)		10. IF INCORPORATE DATE OF INCO	FED, GIVE STATE AND	11. DATE OF INCOR- PORATION			
	association	, ussociation, etc.)	DATE OF INCO	REGITATION	, 5,,,,,,,			
12.	NAME AND MAILING ADDRESS OF APP ALL PAPERS:	LICANT REPRESENTA	I TIVE(S), IF ANY, TO	SERVE IN THIS APPLI	CATION AND RECEIVE			
	Royal Sluis, P.O. Box	22, 1600 A	A ENKHUIZEN	, Holland				
13.	CHECK BOX BELOW FOR EACH ATTAC		Variato (Cas Castian	50 of dea Diens IVenica	A Duraturation And V			
		· ·	variety (See Section	32 01 the Plant Variet	y Froiection Act.)			
	— 155. Exhibit b, Novely State							
	13C. Exhibit C, Objective Desc	cription of the Variet	y (Request form from	Plant Variety Protecti	on Office.)			
	13D. Exhibit D, Additional Des	scription of the Varie	ety.					
14a.	DOES THE APPLICANT(S) SPECIFY THA SEED? (See Section 83(a). (If "Yes," answ			ARIETY NAME ONLY AS	A CLASS OF CERTIFIED			
14b.	DOES THE APPLICANT(S) SPECIFY THAT LIMITED AS TO NUMBER OF GENERAL			4B , HOW MANY GENER BREEDER SEED7	ATIONS OF PRODUC-			
	YES NO		FOUNDATION	REGISTERED	CERTIFIED			
15a,	DID THE APPLICANT(S) FILE FOR PROname of countries and dates.)	TECTION OF THIS VA	RIETY IN OTHER COL	JNTRIES? X YES	NO (If "Yes," give			
	Holland 5/1	/80						
1Eh	HAVE RIGHTS BEEN GRANTED THIS V		OUNTRIES? T YES	(If "Yes,"	give name of countries			
100.	and dates.)	ANIETT IN OTHER	001111111111111111111111111111111111111	■ ∧ ○ (1). 1es,	give name of countries			
16.	DOES THE APPLICANT(S) AGREE TO THE JOURNAL?	HE PUBLICATION OF H	IS/HER (THEIR) NAM	IE(\$) AND ADDRESS IN	THE OFFICIAL			
17.	The applicant(s) declare(s) that a viable				pplication and will be			
	replenished upon request in accordance The undersigned applicant(s) is (are) to	· ·	·		helieve(s) that the			
	The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section							
	42 of the Plant Variety Act.	ka manuscentation how	sin can iconardiza na	ntaction and moult in	nonalties			
	Applicant(s) is (are) informed that fall	ъе тергезентацон печ	zni can jeoparuize pi	viecuvii and resuit IN	penatues.			
	8th March. 1982		J.(LICANITY			
	(DATE)			(SIGNATURE OF APPI	_ICANT)			
				19/1/				
FOR	(DATE) M GR-470 (1-78)			SIGNATURE of APPL	ICANT)			

INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below,

ITEM

- Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability,
- Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties:

 (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- 15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

cauliflower Cervina

Exhibit 13A pedigree

Cervina has been selected from a cross of Dok Elgon with a later maturing breeding line.

Through family selection and line selection in a later stage, Cervina has been derived.

Cervina appears to be stable and uniform through several years of multiplication.

Exhibit 13B, novelty statement

Cervina is most similar to Dok Elgon, but it is maturing later, and leaves grow more erect.

In 12 plantings over 3 years (2 locations, early autumn and late autumn), 50% harvest was 10 days later than Dok Elgon (s=0, n=12). Plantheight of Cervina was 35 cm (s=4, n=100) while Elgon's was 28 cm (s=3, n=100). (Holland, October 1981)

Exhibit 13D, additional description

Cervina is a medium late variety, selected for autumn cropping. Plantvigour is very good in its class, allowing cropping in areas where Dok Elgon lacks vigour.

APPENDUM TO EXHIBIT H (PER APPLICANTS LETTER OF 3/23/83.

NO VARIANTS HAVE BEEN OBSERVED IN CERVINIT' THROUGH THE

NAT 2 YEARS OF MULTIPLICATION. CERVINA CAN BE MAINTAINED AND

LAST 2 YEARS OF MULTIPLICATION. CHANGING ITS CHARACTERISTICS.

REPRODUCED THROUGH SEED WITHOUT CHANGING ITS CHARACTERISTICS.

Ref. 3/28/83

FORM GR-470-30 (7-1-74)

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782
OBJECTIVE DESCRIPTION OF VARIETY
CAULIFLOWER
(Brassica Oleracea var, botrytis)

NAME OF APPLICANT(s)	VARIETY NAME OR TEMPORARY DESIGNATION								
Royal Sluis	Cervina								
ADDINES(Street and not of or F.E.D.N.N.p., Officty States and ZIP Code)	FOR OFFICIAL USE ONLY								
P.O. Box 22, 1600 AA ENKHUIZEN, Hol	land PVPO NUMBER 8200109								
Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in first box (c.s. 0 8 9 or 0 9 when number is either 77 or less or 9 or less.									
1. REGION OF ADAPTATION: (Where best adapted in the U.S.A.1									
1 = NORTHWEST 2 = NORTHCENTRAL 6 = MOST REGIONS	3 ■ NORTHEAST 4 ■ SOUTHEAST 5 = SOUTHWEST								
2. SEASON: (Main crop)									
1 = LATE FALL-EARLY WINTER	2 = LATE WINTER -EARLY SPRING								
c	4= LATE SUMMER → EARLY FALL								
3. MAWR ITV: (Days to 50% harvest)									
1 1 5 FROM TRANSPLANTS	2 5 NO. DAYS HARVESTING PERIOD								
1 0 5 FROM DIRECT SEEDING									
4. PLANT HEIGHT: (At harvest)									
									
3 5 CM. FROM SOIL LINE TO TOP OF CURD									
CM. TALLER THAN ,	(• • • • • • • • • • • • • • • • • • •								
CM. SHORTER THAN	5 = OTHER (Specify) D o k Elqon								
5. LEAVES:									
2 3 TOTAL NUMBER	CM. AVERAGE LENGTH AT MID-POINT OF PLANT (Including Petiole)								
	3 0 CM. AVERAGE WIDTH AT MID-POINT OF PLANT								
1 1 = STRAIGHT MARGINS 2 ■ WAVY MARGINS c I	1 = THIN VEINS 2 THICK VEINS								
1 = MOSTLY SESSILE 2 = MOSTLY PETIOLATE 3 = EQUALLY SESSILE AND PETIOLATE									
3 COLOR: 1 = LIGHT GREEN (Snowball Mo. 10) 2 = MEDIUM GREEN (Snowball Mo. 10) 4 = BLUSH GREEN (November)	1 = UPRIGHT, EXPOSE CURD 2 = INCURVED, PARTIALLY COVER CURD 3 = COMPETELY COVER CURD (Self blanching)								
6. CURD:									
1 8 CM. DIAMETER	1 2 CM. DEPTH								

6. CUI	RD:							
1	1 s TIGHT 2 s l	LOOSE	3 SHAPE:	I = F L A T 3 = DOME	2 = SEMI-DOME			
2	1 ॼ SMOOTH 2 =	KNOBBY						
U 1	1 = BRIGHT W COLOH: 3 = PURPLE-G	VHITE 2 = CREAMY, DULL WHITI GREEN	1 = NO LE	EAVES IN CURD	2 ■ LEAVES IN CURD			
7. DISEASE RESISTANCE: (0 # Not Tested; 1 = Sust., tible, 2 # Resistant. Specify race if known)								
	BLACK SPOT		0 CLUBROO	т				
	PHYTOPHTHDRA ROOT ROT		WHITE BLISTER					
0	BLACK ROT		0 воттом кот					
	CERCOSPORELLA LEAF SPOT		DOWNY	DOWNY MILDEW				
	POWDERY MI LDEW		VERTI CI LLUM WILT					
0	BLACK LEG		0 CAULIFLOWER MOSAIC					
0	RING SPOT		0 TURNIP YELLOW MOSAIC					
	YELLOWS		0 WIRE STEM					
OT HE R (Specify)								
8. OTHER RESISTANCE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)								
		rested, 1 - Susceptible, 2 - Resistant						
2	BUTTONING"		"BLINDNESS"					
2	"RICEYNESS"		"WHIPTAI	"WHIPTAI L"				
0	INSECT (Specify)							
9. INDI	CATE A VARIETY THAT	MOST CLOSELV RESEMBLES THA	T SUBMITTED:					
	CHARACTER	VARIETY	С	HARACTER	VARIETY			
MATURITY Dok Elgon		Dok Elgon	PLANT COLOR		Dok Elgon			
ADAPTATION		Dok Elgon	CURD SIZE		Dok Elgon			
		Dok Elgon	CURD SHAPE		Dok Elgon			
PLANT SIZE		Dok Elgon	CURD COLOR		Dok Elgon			
REFERE Nieuw	ence: hof, M. 1969. Cole Croj	pe World Crop Series, Leonard H	ill.					
COMMENTS:								